

February 14, 2018



Erin Fashoway, State GIS Coordinator
Montana State Library
1515 E. 6th Ave PO Box 201800
Helena, MT 59620-1800

Dear Ms. Fashoway,

After a flooding event in June of 2017 that created headaches for homeowners, water managers, and 911 emergency dispatchers, Ravalli County called a meeting with its partners to determine what could be done to help prevent this kind of hardship in the future. Ditch mapping was the idea that rose to the top.

Therefore, in partnership with a local nonprofit, Bitter Root Water Forum, water managers at the Corvallis Canal and Water Company, and the GIS Department of Ravalli County, the Bitterroot Conservation District is respectfully pleased to submit the enclosed grant proposal in the amount of \$14,400.00, to begin the ditch mapping process.

We are grateful for the funding made available through the Montana State Library and are looking forward to the opportunity of providing an important public service to those living in Ravalli County and around the great state of Montana.

Thank you for your consideration of our request.

Sincerely,

The Bitterroot Conservation District

A handwritten signature in black ink, which appears to read "H. Eldredge", is written over the printed name of the chairman.

Howard Eldredge
Chairman

enclosure

MONTANA LAND INFORMATION GRANT APPLICATION

STATE FISCAL YEAR 2019

Proposal Information	
Date Submitted:	2/15/18
Identified Grant Priority:	Build Geographic Information Systems to Improve Local & Tribal Government Workflows, Business Processes, and Operations
Annual or Multi-Year Proposal:	Multi-Year Proposal, beginning in 2018-2019 with a desire to complete Phase 2 in 2019-2020
Proposal Prepared By:	Heather Barber, Bitter Root Water Forum
Short Title of Proposal:	Ditch Mapping for Land Use Planning + Safety (100 max characters)
<p>Executive Summary (<i>required – 250 maximum word count</i>):</p> <p><i>Ditch Mapping for Land Use Planning + Safety</i> will use GIS to map the Corvallis canal/ditch and identify all lateral diversions to provide better and more readily available ditch maps to the public, improve land use planning, assist 911 emergency responders, and increase public safety.</p> <p>This effort will bring stakeholders together to create a tool that will benefit public citizens and help the County with land use planning—including project siting and homebuilding—by delivering better information about the location of irrigation ditches. This information will assist landowners, County representatives, and emergency responders in the event of ditch flooding. Accurate maps will also assist water managers with the delivery of irrigation water, a necessary but complicated system of great importance in semi-arid Ravalli County.</p> <p>With the guidance of the State Library, this proposal will develop GIS Data to support local and statewide needs, defining standards that enhance the National Hydrography Dataset and disseminating information of value to the citizens of Montana. This proposal will also provide much needed equipment and training to advance ditch mapping and promote GIS work long after this proposal is complete. Funding this application will catalyze a much-needed process of mapping hundreds of miles of irrigation ditches throughout Ravalli County.</p> <p>Through partnerships and collaboration with the Bitterroot Conservation District, Bitter Root Water Forum, Corvallis Canal and Water Company, and Ravalli County - GIS Department and Office of Emergency Management, quality and valuable data will be available for the public benefit.</p>	
List All Past Awarded MLIA Grants:	
NA	

SECTION 1 – APPLICANT, PARTNER, AND PROPOSAL INFORMATION

Primary Applicant Contact Information	
<i>(Please fill this section out in it entirety)</i>	
Name of Agency/Entity:	Bitterroot Conservation District
Department:	State/County
Division/Section:	DNRC/Conservation District
Street:	1709 North First Street
City:	Hamilton
County:	Ravalli
State:	Montana
Zip Code:	59840
Project Manager Contact Information:	
Name:	Julie Ralston
Title:	BCD Administrator
Email Address:	bcd@qwestoffice.net
Phone Number:	406-361-6181
Fax Number:	NA
Secondary Contact Information:	
Name:	Howard Eldredge
Title:	BCD Chairman
Email Address:	alombard3@q.com
Phone Number:	406-493-7510
MLIA Grant Funding Request & Match:	
Total Requested MLIA Funds:	\$14,400
Total Matched Funds:	\$6,518

Funding Partners: <i>(required for each partner, copy box as needed)</i>	
Name of Contact:	Dan Huls
Name of Agency:	Corvallis Canal and Water Co.
Street:	P.O. Box 545
City:	Corvallis
County:	Ravalli
State:	MT
Zip Code:	59828
Contact Email Address:	danhuls@bitterroot.net
Contact Phone Number:	406-360-0779

Funding Partners: <i>(required for each partner, copy box as needed)</i>	
Name of Contact:	Heather Barber
Name of Agency:	Bitter Root Water Forum
Street:	178 S. 2 nd Street
City:	Hamilton
County:	Ravalli
State:	MT
Zip Code:	59840
Contact Email Address:	heather@brwaterforum.org
Contact Phone Number:	406-375-2272

Funding Partners: (required for each partner, copy box as needed)	
Name of Contact:	Ken Miller
Name of Agency:	Ravalli County
Street:	215 S. 4 th St
City:	Hamilton
County:	Ravalli
State:	MT
Zip Code:	59840
Contact Email Address:	kmiller@rc.mt.gov
Contact Phone Number:	406-375-6622, Ext. 1

SECTION 2 – RELEVANCE

The Bitterroot Valley has one of the largest and most complex ditch systems in the state of Montana—comprised of hundreds of miles of ditches—and correct information about ditch systems is sorely lacking. Access to ditch maps is critical for land use planners, emergency responders, water managers, and landowners when making decisions and responding to crises.

Ditch Mapping for Land Use Planning + Safety will “...develop a standardized method for collecting, maintaining, and disseminating land information”, a core tenet of the MLIA. Maps will allow for better land use planning and infrastructure management as they will include points identifying the location of headgates, critical components of water management. This proposal will also lay the groundwork for future GIS Data and Program Development as it will be the first phase of a much more extensive mapping effort; funding will not only jump start this effort but allow for expansion once we can train local citizens in GIS.

By creating useable data that can be shared through websites and printed maps, we will disseminate information in a way that is of benefit to the public. Ditch Maps will bring critically important ditches and diversions into consideration for a myriad of decision-making processes including: determining locations for development by land use planners and builders and identifying areas for water managers to divert excess water in the event of flooding.

By including training for local stakeholders and coordinating with the State Library, we will ensure that this project is sustainable and repeatable, allowing the work that we do under this grant to grow with future funding opportunities and expand into other areas. There are other local ditch companies interested in mapping, and the County and State could benefit from having better information about irrigation ditches throughout the State.

SECTION 3 – PUBLIC BENEFIT

Ditch Mapping for Land Use Planning + Safety fits into the MSDI theme of Hydrography. Local ditch company representatives will be trained to collect data points, fill in data gaps, and upload ditch information into ArcGIS. By coordinating with the State Library to define standards for data collection, we will be able to enhance the National Hydrography Dataset. This information will help fulfill a statewide and local need and create a standard operating procedure for mapping and sharing ditch information, creating a consistency in data formatting that can be used to expand this project in Phase 2 and be emulated in other counties.

Accessible and up to date information about ditches and headgates will be of great benefit to multiple agencies and jurisdictions, including the City of Hamilton, Ravalli County, 911 Emergency Dispatch, and the managers of the Corvallis Canal and Water Co. At present, there is not enough accessible information about the location of ditches and their lateral diversions, making it difficult for emergency responders and homeowners to know who to contact in the event of flooding.

Citizens of Montana will also benefit greatly from more accessible ditch information, which will be added to a local nonprofit's website for easy access by the public. Both realtors and private landowners have requested this ditch information so they have better access to accurate information about ditches running through properties. This information will help homebuilders and homebuyers see the proximity of active ditches to proposed and existing structures, enabling better decision making in building and buying.

The intended level of coordination and collaboration—across jurisdictions, with assistance from the MT State Library, and with community partners—will improve efficiency and reduce the duplication of efforts as ditch mapping moves into Phase 2 and beyond.

SECTION 4 – PROJECT MANAGEMENT AND ORGANIZATIONAL CAPABILITY

The Bitterroot Conservation District (BCD) has executed multiple grants in conjunction with community partners for the public benefit. The most recent example includes the "Supply Diversion Project", a project to improve the delivery of irrigation water, improve public safety, and offer an aquatic benefit. The project was a partnership between Montana DNRC, US Army Corps of Engineers, Montana FWP, and local irrigators. To successfully complete the nearly \$300,000 project, BCD hired and oversaw a consultant that performed the duties necessary to meet the overall objectives of the project.

As with the "Supply Diversion Project", BCD will implement the methodology described in the scope of work by contracting with a qualified consultant. Consultant A will solicit and manage Consultants who are proficient in the methodology described in this proposal including data collection and GIS.

To maintain the project, BCD will ensure that the proper data is submitted to MSDI, and that the ditch map is ultimately available on the Bitter Root Water Forum's website to allow for easy access by the public. BCD will also support future ditch mapping efforts through the short-term

leasing of GIS/GPS units so that additional miles of ditches can be plotted and mapped, and added to the Bitter Root Water Forum's website.

The District Administrator Julie Ralston, who will serve as the Project Manager for *Ditch Mapping for Land Use Planning + Safety*, has served with the BCD since 1999 and has a proven track record of proficient project management. She served as the Montana State Employees Organization President, and has received awards from the Department of Natural Resource Conservation, USDA Natural Resources Conservation Service, and the Montana Association of Conservation Districts, as administrator of the year and program administration

Funding partners will each bring important skills and qualifications to complete the proposal: the Corvallis Canal and Water Company members have legal access to the project site; the Bitter Root Water Forum is able to house the ditch map on their website; and the Ravalli County GIS Director is able to advise on best methods, coordinate with other ditch mapping efforts, and provide information to Ravalli County Emergency Services.

The Project Manager will successfully manage the project by working in close partnership with a trusted partner/consultant to verify that all of the work outlined in the well-defined SOW and MOU—including data collection, reporting requirements and management of consultants—is being done to her satisfaction, ensuring that the project will be completed on time and in-line with the proposal's overall intent.

BCD's procurement procedure states: "Between \$5,000 and \$25,000 falls in the limited Solicitation category, and you must obtain bids for your project. This procedure requires a minimum of three written or oral quotes. Also, it is recommended that you use the "limited solicitation" form available for the general services division website at www.mt.gov/doa/gsd/procurement/forms.asp". However, the consultant's fees for any given portion of the grant will not exceed \$5,000 and therefore will not be subject to limited solicitation but rather awarded upon the discretion of the board of supervisors.

SECTION 5 – SCOPE OF WORK

1. Goals + Objectives

- a. Map the entirety of the main Corvallis canal/ditch (~9 miles) and identify all lateral diversions to assist landowners, irrigation system managers, emergency dispatch providers, realtors, land use planners, and landowners.
 - i. Objectives: Contract with a GIS professional to assess accumulated data, identify gaps, fill in gaps with information provided by local ditch representatives, add information to ArcGIS, and ultimately build a GIS layer that can be shared with Corvallis Canal and Water Company, added to a website housing ditch information for the county, and be distributed to builders, buyers, and land use planners. Features for mapping will include ditches, lateral diversions, and structures; type of structures will include headgates, diversions, and weirs (low dams built across a river to raise the level of water upstream or regulate its flow).
- b. Build local capacity to complete additional phases of mapping to update and digitize ditch and diversion maps throughout Ravalli County, expanding the

impact of this proposal and creating a sustainable model that can be repeated for Phase 2 and beyond.

- i. Objectives: Contract with a GIS professional to train ditch representatives on how to properly collect, store, and share information regarding the location of ditches, diversions, and associated infrastructure.
- ii. Objectives: Use purchased equipment as a means to provide the hardware necessary to complete additional phases of mapping beyond the close of this agreement.

2. Tasks or Activities *(Please reference the Project Schedule for details about when tasks will be accomplished)*

- a. The Project Manager will hire Consultant A, who will develop a SOW and MOU describing the activities needed to complete the project, including: coordination with project partners; assistance in grant management activities and communication with the State Library; the solicitation and management of other Consultants; and the completion of grant deliverables.
- b. Consultant A will solicit Consultant B to: 1) accumulate existing data sets (DNRC Water Resource Survey for Ravalli County, LiDAR maps, Google Earth, and aerial imagery of Hamilton and Corvallis, etc.) and, after data gaps are filled via step 5, 2) upload data to ArcGIS and the Statewide Hydrography Set.
- c. Consultant B will analyze existing data for gaps and identify what else needs to be collected to update and digitize maps.
- d. Consultant A will orchestrate the purchase of necessary equipment.
- e. Consultant A will solicit Consultant C to offer training to local ditch company representatives on how to collect and store data points, and update to ArcGIS.
 - i. Includes the development—in conjunction with the State Library—on Standard Operating Procedures (SOP's) regarding how data should be collected for consistency over time and in different areas as the project expands in the future.
- f. Consultant B, in conjunction with Corvallis Canal and Water Co. managers, will collect data points to fill data gaps.
- g. Consultant B will complete ditch and headgate mapping by coordinating with the Project Manager to upload information to ArcGIS and submit to MSDI staff for the Statewide Hydrography Set.
- h. Consultant A and Project Manager compile all final documents and submit final data and map to the State Library.
- i. Equipment purchasing. Hardware and software that will be purchased for this project will include:
 - 2 iOS or Android tablets with accompanying GPS/GIS receivers (Approximately \$750 each). Local users will only be able to collect vital data if they have the proper equipment. Each of the tablets will be outfitted with the ArcCollector application to sync with ArcGIS. *These units and apps were recommended by a GPS professional with MDOT.
 - ArcGIS Desktop for Project Manager, \$1,500. Access to ArcGIS software is the only way we can accurately capture collected data using the certain attributes necessary to contribute to the National Hydrograph.

3. Project Schedule

	July- September	October- December	January- March	April - June
Begin agreement with Consultant A– Develop a SOW and MOU describing the activities needed to complete the project <i>Before July 15, 2018.</i>				
Consultant A will begin agreement with Consultant B to: 1) accumulate existing data sets + fill data gaps, and, 2) upload data to ArcGIS and the Statewide Hydrography Set <i>Before August 15, 2018.</i>				
Consultant A will orchestrate the purchase of necessary equipment – including two GPS units and ArcGIS Desktop <i>Before September 30, 2018.</i>				
Consultant B will analyze existing data for gaps and identify what else needs to be collected to update and digitize maps <i>Before September 30, 2018.</i>				
Consultant C will offer a training to local ditch company representatives on how to collect and store data points, and update to ArcGIS <i>Before September 30, 2018.</i>				
Consultant B, in conjunction with Corvallis Canal Co. manager, will collect data points to fill data gaps <i>Before May 30, 2019</i>				
Consultant B completes ditch and headgate mapping layer by assisting the Project Manager in uploading information to ArcGIS and submitting to MSDI staff for the Statewide Hydrography Set <i>Before June 30, 2019</i>				
Project Administration, reporting, and invoicing. <i>For the duration of the contract.</i>				
Consultant A and Project Manager compile all final documents and submit final map to the MT State Library <i>Before June 30, 2019</i>				

SECTION 6 – BUDGET JUSTIFICATION AND BUDGET TABLE

Budget Justification and Narrative

To get this project off the ground, much of the funding for Phase 1 will be from the MLIA Grant. By completing Phase 1 with support from State Library staff we will determine the best way to collect existing information on ditches, have local citizens trained on how to collect and disseminate information, and develop a streamlined process for completing additional phases. This will allow for project expansion as the partners on this grant develop a process for how this effort should be completed, including better information on staffing and funding needs.

With support from the State Library and new skills developed through this process we will be able to draft future proposals to funding sources beyond MLIA with increased accuracy, and complete additional phases with increased efficiency. We will also be able to immediately assist with additional work on the Corvallis ditch since their staff and managers will have the skillsets to collect and upload information to ArcGIS. By partnering with the County GIS Department to standardize data collection and the Bitter Root Water Forum to house information on a website, we will be able to grow the mapping effort with other ditch companies, adding information to a public website as we complete additional phases.

Unless otherwise noted, hourly rates of personnel are based on a document produced by the Montana Department of Environmental Quality, "Estimating the Value of Volunteer Labor".

Personnel

- Project Manager: Coordinating with Consultant A to draft and approve SOW, and overseeing Consultant A.
 - Cost \$480 (15 hrs @\$32/hr). Time estimate based on approximate time spent overseeing a previous grant (Watershed Planning Assistance Grant) with a local consultant.
- Consultant A: Develop a SOW and MOU describing the activities needed to complete the projects, including administrative duties. Consultant will coordinate between all project partners, orchestrate the purchase of necessary equipment, and solicit and oversee all other Consultants for the tasks outlined within the grant.
 - Cost \$3,750 (125 hrs @\$30/hr, ~2.5 hrs/week). Time and cost estimate based on calculation given by a partner in the field.
- Consultant B: 1) accumulate existing data sets, 2) groundtruth data, and, 3) upload data to ArcGIS.
 - Cost \$4,500 (60 hrs @ \$75/hr). Time and cost estimate based on conversation with local GIS specialist.
- Consultant C: Provide training to local ditch company representatives and other Consultants on how to collect and store data points, and update to ArcGIS.
 - Cost \$1,500 (8 hrs of training). Time and cost estimate based on conversation with local GIS specialist.
- Funding Partner - Corvallis Canal and Water Company: Review of existing data to help determine additional data needs, training time with Consultant C to learn GIS techniques and ArcGIS, and time spent walking ditches to groundtruth and add additional data for the dataset.
 - \$2,000 In-Kind Contribution (62.5 hrs @\$32/hr). Time estimate based on hourly breakdown of tasks needed to fulfil deliverables.

- Funding Partner - Bitter Root Water Forum (BRWF): Assistance in revision of documents, printing and distributing maps, coordination, and information sharing on the website.
 - \$1,300, In-Kind contribution (35 hrs @ \$30/hr) + \$250 cash contribution for maps. Time + cost estimates based on approximation given by BRWF staff.
- Funding Partner - Ravalli County: Ravalli County GIS Director will coordinate with other ditch mapping efforts in the County to standardize how data is collected, stored, and shared countywide; also providing ditch map to Emergency Services.
 - \$2,120, In-Kind Contribution (40 hrs @\$53/hr). Time estimates based on hourly breakdown of tasks needed to fulfil deliverables.
- Applicant/Bitterroot Conservation District: Board members time to review and approve reports and invoicing, and approve final products for submission.
 - \$848, In-Kind Contribution (Six Supervisors x .5hrs x 4 meetings @\$53/hr + 2 Supervisors x 2hrs @ \$53/hr). Time estimate based on amount of time spent during meetings and outside of meetings to discuss and approve deliverables.

Travel

- 500 miles @\$0.54/mile, \$270. Mileage estimates based on approximate amount of time spent travelling to and around the Corvallis Canal for groundtruthing. Mileage rates determined by the state of Montana.

Equipment:

- 2 iOS or Android tablets with accompanying GIS receivers, \$1,500.
 - \$750 each. These units were recommended by a GPS professional with MDOT who provided cost estimates as well.
- ArcGIS Desktop for Project Manager, \$1,500. Cost estimate given by ESRI consultant.
 - Access to ArcGIS software is the only way we can accurately capture collected data using the certain attributes necessary to contribute to the National Hydrograph.

Supplies and Materials:

- Two large printed maps of the Corvallis Canal, marking lateral diversions. \$125. Cost estimate based on similar sized printing jobs completed at the local UPS Store.
- Printed brochures of the mapped ditch to share with realtors and landowners, and to assist in sharing information about the project to solicit support of future efforts. \$125. Cost estimate based on similar sized printing jobs completed at the local UPS Store.

Contractual:

- Administration fees for the Project Manager to support the development and processing of all reports and invoices; 5% of the total project cost will be associated with this administrative task.

STATEMENTS OF SUPPORT (IF APPLICABLE)

Corvallis Canal and Water Company

P.O. Box 545
Corvallis MT 59828

2-12-2018

To Whom It May Concern

I am writing on behalf of the Corvallis Canal and Water Company, in support of the proposal "Ditch Mapping for Land Use Planning + Safety".

The role of the Corvallis Canal is to deliver irrigation water to our shareholders. Delivering water to users through irrigation canals and lateral ditches is a complicated and important process. Outdated, inaccurate and or nonexistent maps of the system make management difficult. The last time ditches were mapped was in 1958 for the DNRC Water Resources Survey. It is past time to modernize our maps incorporating current technology to enhance the safe delivery of this most valuable resource.

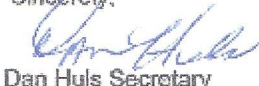
A lot has changed in Ravalli County since 1958, in some cases points of diversion and lateral ditches have been abandoned, modified and moved, this has left water managers and citizens at a loss when trying to find up to date information about where active ditches providing delivery of water are currently located.

Because we don't have accurate ditch maps, when ditches flood people sometimes call 911 for help and the folks at 911 don't know who to get in touch with about the emergency. We witnessed this firsthand during a ditch flooding event in June of 2017. If we had modern accurate and updated maps showing where head gates were located, where the canal or lateral ditches ran through properties, flood water could be better managed safely and citizens would know who to contact in case of an emergency. At a minimum, if they did call 911 the dispatchers could use these updated maps to determine where the emergency is located and who needs to get the call.

Having accurate ditch maps with GPS coordinates is incredibly important to emergency personnel, and water managers, and to those people of Ravalli County, living among the ditches.

Please fund the effort to get this ditch mapping project off the ground.

Sincerely,



Dan Huls Secretary

CC&WC Board of Directors:
Darrel Sperry, President.
Bob Popham, Vice President.
Dan Huls, Secretary
Loren Hawkinson
Bob Gingrich

BITTER ROOT Water Forum

Board of Directors

Eddie Olwell
President
Sherry Ritter
Vice President
Don McGourty
Treasurer/ Secretary
Sharon Dedmon
Chris Clancy
Ed Snook
Megan Winderl
Scott Ziegenfuss
Charlie Larson

Agriculture Advisors

Dan Huls
Dan Severson

Executive Director

Heather Barber

Program Coordinator

Katie Vennie

AmeriCorps Member

Aissa Wise

Bookkeeper

Jenny West

PO Box 1247
178 S. 2nd St
Hamilton, MT 59840

(406) 375-2272
brwaterforum@
bitterroot.net

brwaterforum.org

Montana State Library
1515 E. 6th Ave
PO Box 201800
Helena, MT 59620-1800

February 12, 2018

To Ms. Fashoway and associates,

The Bitter Root Water Forum is writing in support of the grant application *Ditch Mapping for Land Use Planning and Safety*.

The Bitter Root Water Forum is a community driven non-profit organization dedicated to supporting the traditions of agriculture, community and recreation by protecting, enhancing and restoring the Bitterroot Watershed through on the ground restoration projects and watershed education. We bring the community together to shape the future of the watershed we all rely on.

As the watershed group for all users, we are keenly aware of the need for ditch mapping in Ravalli County. We have had multiple requests from realtors and landowners for updated ditch maps to help them with the selling and buying of properties. Outdated information makes it difficult for people to know whether there is a stream or an irrigation ditch running through a parcel; this has led to disappointed homebuyers and conflicts with local water managers. We have had requests from ditch managers who know that updated maps will assist them with their important job of water delivery. We attended a meeting with the County, water managers, and people from NOAA after a flooding event in June that caused much distress for homeowners, police, and 911 dispatchers; the best idea that came from that meeting was mapping ditches to prevent that kind of chaos in the future.

To best support multiple users and agencies, we will assist in the coordination of mapping to standardize the map creation process. We hope this proposal will be the start of a much larger effort to map ditches throughout the Bitterroot Watershed (Ravalli County) and standardization will be critical when sharing information across jurisdictions. Ultimately, the Water Forum will house the maps on our website for ease of access. As part of our educational arm, we will promote the maps to homebuyers, realtors, and water managers, and share the link to the maps with all local affiliated agencies.

Thank you for your consideration of this proposal.

Sincerely,



Heather Barber
Executive Director

Bitter Root Water Forum= Bringing the Community together for the Watershed We All Rely On

Fiscal Year 2019 Montana Land Information Act Grant Application Package



RAVALLI COUNTY GIS DEPARTMENT
215 S. 4TH ST. SUITE E
HAMILTON, MT 59840
(406) 375-6622
www.ravallicounty.mt.gov/gis

February 9, 2018

Montana State Library
1515 E. 6th Ave
PO Box 201800
Helena, MT 59620-1800

Subject: 2019 MLIA Grant Proposal

To Whom It May Concern:

This letter is to pledge our support of the project, Ditch Mapping for Land Use Planning + Safety, to be submitted by the Bitterroot Conservation District.

Ravalli County will benefit from this project by the availability of more accurate GIS data regarding the location and attributes of irrigation infrastructure. This proposal will provide the beginnings of a larger effort to map the entire irrigation system throughout our jurisdiction. The benefits of this data to the County and its citizens include decision making for land use planning, home builders and buyers, and emergency preparedness during flooding situations.

I believe that this proposal will provide the opportunity to develop standard operating procedures in data collection, data sharing, and mapping. My role as a partner in this project will include assisting with the coordination of the various efforts and the development of uniform processes among the irrigation companies as they move forward with their individual mapping projects.

Sincerely,

A handwritten signature in dark ink, appearing to read "Ken Miller".

Ken Miller
Director, Ravalli County GIS Department

MLIA GRANT BUDGET SUMMARY TABLE

MLIA GRANT BUDGET SUMMARY									
	MLIA Summary	Applicant Summary			Funding Partner Summary*				Total:
Category	MLIA Share	Applicant Cash	Applicant In-kind	Applicant Subtotal	Corvallis Canal Co.	Bitter Root Water Forum	Ravalli County	Partner Subtotal	MLIA Share, Applicant Subtotal, Partner Subtotal
a. Personnel	10,230		848	848	2,000	1,300	2,120		16,498
a. 1. Fringe Benefits									
b. Travel	270								270
c. Equipment	3,000								3000
d. Supplies & Materials	250					250			500
e. Contractual	650								650
f. Other									
Total	14,400		848	848	2,000	1,550	2,120		20,918

*Modify, add, or remove the funding partners column(s) as needed to define a clear budget

SECTION 7 – RENEWABLE GRANT ACCOUNTABILITY

NA

SECTION 8 – AUTHORIZING STATEMENT

Authorizing Statement

I hereby certify that I have read the application and the information and all statements in this application are true, complete and accurate to the best of my knowledge and that the project or activity complies with all applicable state, local and federal laws and regulations.

I further certify that this project will comply with applicable statutory and regulatory standards.

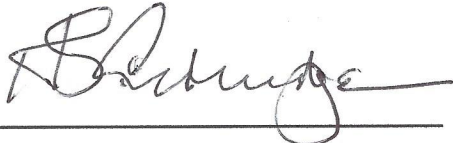
I further certify that I am (by my signature) authorized to enter into a binding agreement with the Montana State Library to obtain a grant if this application receives approval.

H. S. ELDREDGE

Name (print or type)

CHAIRMAN, BITTERROOT CONSERVATION DISTRICT

Title (print or type)

 CHAIRMAN

Signature and Title of Authorized Representative(s) of Public Entity Applicant

14 FEBRUARY 2018

Date

SECTION 9 – CHECKLIST – SIGNATURES REQUIRED

Applicant's Project Manager, defined Section 1, must initial in ink or mark 'n/a' if a section is not applicable.

Initial or mark n/a	Completed Required Task
<i>E</i>	Proposal Prepared by an outside party – I have read this document in its entirety. (if applicable)
<i>E</i>	Section 1 – Applicant, Partner, and Proposal Information
<i>E</i>	Primary Applicant Information
<i>E</i>	Funding Partner (if applicable)
<i>E</i>	Proposal Information
<i>E</i>	List All Past Awarded MLIA Grants
<i>E</i>	Section 2 – Relevance (300 max word limit)
<i>E</i>	Section 3 – Public Benefit
<i>E</i>	Section 4 – Project Management
<i>E</i>	Section 5 – Scope of Work Narrative (4-page limit)
<i>E</i>	Section 6 – Budget Justification Narrative and Table (3-page limit)
<i>E</i>	Budget Justification Narrative
<i>E</i>	Complete Budget Table
<i>E</i>	Section 7 – Funding Partner Statements of Support (if applicable)
<i>E</i>	Section 8 – Renewable Grant Accountability Narrative (if applicable)
<i>E</i>	FY2018 Grantee Report (if applicable)
<i>E</i>	Past MLIA Grant Project Narrative (if applicable)
<i>E</i>	Section 9 – A Signed Authorizing Statement